

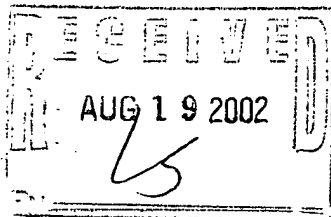


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/789,317	02/20/2001	Steven K. Case	A48.12-0008	2294

JKC
7590 08/14/2002
WESTMAN, CHAMPLIN & KELLY
International Centre
Suite 1600
900 Second Avenue South
Minneapolis, MN 55402-3319



EXAMINER

PAIK, STEVE S

ART UNIT PAPER NUMBER

2876

DATE MAILED: 08/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

JJW
DOCKETED
RESPONSE DUE 11-14-02
CALENDARED
CHECKED BY ATTY 2-14-03

Office Action Summary

Application No.

09/789,317

Applicant(s)

CASE ET AL.

Examiner

Steven S. Paik

Art Unit

2876

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 15-23, 27-30, 32 and 34 is/are rejected.
- 7) ☒ Claim(s) 12-14, 24-26, 31, 33 and 35 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6, 7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Objections

1. Claim 35 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 35 is recited to depend on the method of claim 22.

However, claim 22 is not a method claim. It is rather an apparatus claim. Furthermore, if the applicant intends to present claim 35 as a depend claim of 22, it is respectfully suggested to keep the same format shown in other dependent claims to correctly further limit the subject matter.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-11, 15-23, 27-30, 32 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Nguyen (USP 5,383,118).

Regarding claim 1, Nguyen discloses an apparatus (Fig. 1) for aligning an optical component in an optical module, comprising:

a reference base (x-y-z table 13 and col. 1, ll. 61-63) having a registration feature configured to align with a registration feature of the optical module (col. 2, ll. 8-14);

a sensor (col. 2, ll. 64-67) configured to respond to an optical characteristic of the optical element, the optical characteristic varying with at least one degree of freedom relative to the

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registration feature of the optical module, and responsively provide sensor output (col. 3, ll. 3-7);
and

an optical component manipulator (15 in Fig. 1) configured to provide relative movement between the optical component and the registration features of the optical module (col. 3, ll. 44-67).

Regarding claim 2, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, including a controller (computer 16) configured to operate the optical component manipulator (15).

Regarding claim 3, Nguyen discloses the apparatus as recited in rejected claim 2 stated above, where the controller (16) operates the optical component manipulator (15) in response to the sensor output (the outputs of machine vision cameras 17 and 19 are connected to the computer 16).

Regarding claim 4, Nguyen discloses the apparatus as recited in rejected claim 3 stated above, where the controller (16) actuates the optical component manipulator to align the optical component with a reference (col. 3, ll. 61-67).

Regarding claim 5, Nguyen discloses the apparatus as recited in rejected claim 4 stated above, where the reference is defined with respect to the reference base registration feature (x-y-z table 13)

Regarding claim 6, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, where the optical module includes a relative reference mount (26 in Fig. 4) which carries the registration feature and the controller (after alignment, the computer causes the x-y-z table to move in the z direction to bring the laser into sufficient proximity with the optical fiber that they

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can be bonded) is configured to actuate a bonding mechanism to bond the optical component to the relative reference mount.

Regarding claim 7, Nguyen discloses the apparatus as recited in rejected claim 6 stated above, where the bonding mechanism comprises a heater element configured to melt solder (col. 4, ll. 13-16).

Regarding claim 8, Nguyen discloses the apparatus as recited in rejected claim 7 stated above, where the heater element is carried on the relative reference mount (26 and col. 4, ll. 13-16).

Regarding claim 9, Nguyen discloses the apparatus as recited in rejected claim 6 stated above, where the bonding mechanism comprises a radiation source configured to cure an adhesive material (col. 4, ll. 13-16).

Regarding claim 10, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, where the optical module include includes a relative reference mount (26) and the apparatus includes an optical component loading arm (stationary support 18) configured to place the optical component proximate with the relative reference mount (col. 4, ll. 8-11).

Regarding claim 11, Nguyen discloses the apparatus as recited in rejected claim 10 stated above, in which the controller (16) controls operation of the optical component loading arm (18 by moving the x-y-z table and see col. 3 ll. 57-60).

Regarding claim 15, Nguyen discloses the apparatus as recited in rejected claim 2 stated above, the controller is manually operated (computer 16 needs to be programmed manually in order to perform the alignment function).

Regarding claim 16, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, where the sensor is configured to sense light which has interacted with or has been generated by the optical component (col. 3, ll. 26-29).

Regarding claim 17, Nguyen discloses the apparatus as recited in rejected claim 16 stated above, where the sensor provides a fixed reference for aligning a plurality of optical components with respect to the registration feature of the reference base (col. 3, ll. 44-57).

Regarding claim 18, Nguyen discloses the apparatus as recited in rejected claim 16 stated above, where the sensor comprises a reference optical component (23).

Regarding claim 19, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, where the sensor comprises electrical circuitry (the sensor is to generate machine-readable video signals which are in either forms of analog or digital signal) coupled to an electrical output (col. 3, ll. 3-6) from the optical component, the output related to light received by the optical component.

Regarding claim 20, Nguyen discloses the apparatus as recited in rejected claim 1 stated above, including an initial alignment sensor (19) configured to sense initial alignment of the optical component and where the sensor (17) provides a fine alignment.

Regarding claim 21, Nguyen discloses the apparatus as recited in rejected claim 20 stated above, where the initial alignment sensor (19) comprises a camera (machine vision camera 19).

Regarding claim 22, Nguyen discloses the apparatus as recited in rejected claim 21 stated above, where the initial alignment sensor (19) comprises a plurality of cameras (col. 2 ll. 68 thru col. 2, ll. 1-2).

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Method claim 23 is essentially the same in scope as apparatus claim 1 and is rejected similarly.

Method claim 27 is essentially the same in scope as apparatus claim 16 and is rejected similarly.

Method claim 28 is essentially the same in scope as apparatus claim 19 and is rejected similarly.

Method claim 29 is essentially the same in scope as apparatus claims 10 and 17 and is rejected similarly.

Regarding claim 30, Nguyen disclose the method for aligning an optical module as recited in rejected claim 23 stated above, including loading the optical component in a holder prior to aligning the optical component with the optical component reference (It is inherent that the optical fiber 12 gets loaded onto the stationary support prior to the aligning the optical component with the optical component reference).

Regarding claim 32, Nguyen disclose the method for aligning an optical module as recited in rejected claim 23 stated above, where aligning the optical component comprises scanning the optical component through a search pattern relative to the optical component reference (col.3, ll. 26-29 and ll. 35-38).

Regarding claim 34, Nguyen disclose the method for aligning an optical module as recited in rejected claim 23 stated above, where the optical component reference (23 in Fig. 3) is defined relative to the registration feature of the reference base (x-y-z table).

Allowable Subject Matter

4. Claims 12-14, 24-26, 31 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: none of the prior art of record teaches or fairly suggests the claimed apparatus and method for aligning an optical component comprising, among other things, an optical component manipulator including a vacuum head configured to selectively attach to the optical component.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ebata et al. (USP 4,854,667) disclose an apparatus and a method for aligning an optical fiber.

Yuhara et al. (USP 5,677,973) disclose a method of aligning an optical fiber to an optical fiber or an optical fiber to an optical element.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven S. Paik whose telephone number is 703-308-6190. The examiner can normally be reached on Mon - Fri (7:00am-3:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on 703-305-3503. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0530.



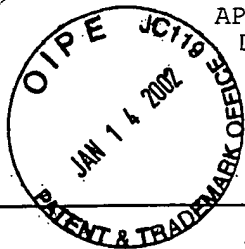
Steven S. Paik
Examiner
Art Unit 2876

ssp
July 31, 2002



KARL D. FRECH
PRIMARY EXAMINER

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT



Atty. Docket No.:
A48.12-0008

Appl. No.:
09/789,317

First Named Inventor:

Steven K. Case et al.

Filing Date

Group Art:

February 20, 2001

2877

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	AA	4,250,520	2/10/81	Denlinger	357	68
SSP	AB	4,457,467	7/3/84	Klement et al.	228	103
SSP	AC	4,708,429	11/24/87	Clark et al.	350	96.20
SSP	AD	4,750,799	6/14/88	Kawachi et al.	350	96.11
SSP	AE	4,752,816	6/21/88	Sussman et al.	357	30
SSP	AF	4,798,439	1/17/89	Preston	350	96.20
SSP	AG	4,892,377	1/9/90	Randle	350	96.2
SSP	AH	4,954,458	9/4/90	Reid	437	51
SSP	AI	4,989,934	2/5/91	Zavacky et al.	350	96.11
SSP	AJ	5,113,404	5/12/92	Gaebe et al.	372	36
SSP	AK	5,123,074	6/16/92	Yokota et al.	385	95
SSP	AL	5,177,807	1/5/93	Avelange et al.	385	91
SSP	AM	5,210,811	5/11/93	Avelange et al.	385	91
SSP	AN	5,247,597	9/21/93	Blacha et al.	385	88
SSP	AO	5,249,733	10/5/93	Brady et al.	228	180.22


FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No
AP					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	
EXAMINER: <i>Alan Park</i>	DATE CONSIDERED: 7-30-02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BH

EXAMINER: Steve Park

LIST OF PATENTS AND PUBLICATIONS FOR
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	BI	5,748,822	5/5/98	Miura et al.	385	90
SSP	BJ	5,748,827	5/5/98	Holl et al.	385	134
SSP	BK	5,778,120	7/7/98	Asakura et al.	385	49
SSP	BL	5,833,202	11/10/98	Wolfgang	248	466
SSP	BM	5,854,867	12/29/98	Lee et al.	385	49
SSP	BN	5,859,943	1/12/99	Asakura et al.	385	49
SSP	BO	5,883,988	3/16/99	Yamamoto et al.	385	14
SSP	BP	5,892,179	4/6/99	Rinne et al.	174	261
SSP	BQ	5,985,086	11/16/99	Peall	156	292
SSP	BR	5,898,806	4/27/99	Nishimoto	385	49
SSP	BS	5,907,649	5/25/99	Acklin et al.	385	49
SSP	BT	5,966,486	10/12/99	Boudreau et al.	385	90
SSP	BU	5,970,200	10/19/99	Takikawa et al.	385	137
SSP	BV	5,985,086	11/16/99	Peall	156	292
SSP	BW	6,027,253	2/22/00	Ota et al.	385	83

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
BX						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BY	
EXAMINER: <i>Steven Park</i>	DATE CONSIDERED: 7-30-02

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Atty. Docket No.:
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	BZ 6,027,254	2/22/00	Yamada et al.	385	88	
SSP	CA 6,058,234	5/2/00	Tachigori	385	49	
SSP	CB 6,106,161	8/22/00	Basavanhally et al.	385	88	
SSP	CC 6,112,001	8/29/00	Kishida et al.	385	49	
SSP	CD 6,115,515	9/5/00	Itoh et al.	385	14	
SSP	CE 6,118,917	9/12/00	Lee et al.	385	49	
SSP	CF 6,130,448	10/10/00	Bauer et al.	257	222	
SSP	CG 6,132,106	10/17/00	Yokoyama	385	74	
SSP	CH 6,151,173	11/21/00	Massit et al.	359	811	
SSP	CI 6,157,050	12/5/00	Fukuoka	257	82	
SSP	CJ 6,160,936	12/12/00	You et al.	385	49	
	CK					
	EL					
	CM					
	CN					
	CO					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SSP	CP 0 840 154 A1	5/6/98	EPO			X

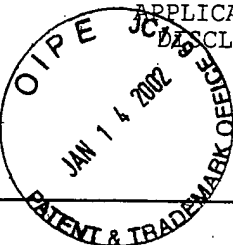
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CQ	
EXAMINER:	DATE CONSIDERED: 7-30-02

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CR						
CS						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>Ssp</i>	CT	0 977 061 A2	2/2/00	EPO			X
<i>Ssp</i>	CU	2 779 536	12/10/99	France			X
<i>Ssp</i>	CV	54-12286	1/29/79	Japan			X
<i>Ssp</i>	CW	63-193113	8/10/88	Japan			(Abstract)
<i>Ssp</i>	CX	61-277908	12/8/96	Japan			(Abstract)
<i>Ssp</i>	CY	62-276890	12/1/87	Japan			(Abstract)
<i>Ssp</i>	CZ	63-12187	1/19/88	Japan			(Abstract)
<i>Ssp</i>	DA	63-65411	3/24/88	Japan			(Abstract)
<i>Ssp</i>	DB	63-193113	8/10/88	Japan			(Abstract)
<i>Ssp</i>	DC	63-228113	9/22/88	Japan			(Abstract)
<i>Ssp</i>	DD	1-302214	12/6/89	Japan			(Abstract)
<i>Ssp</i>	DE	6-34852	2/10/94	Japan			(Abstract)
<i>Ssp</i>	DF	6-174943	6/24/94	Japan			(Abstract)
<i>Ssp</i>	DG	6-201921	7/22/94	Japan			(Abstract)
<i>Ssp</i>	DH	6-331840	12/2/94	Japan			(Abstract)
<i>Ssp</i>	DI	7-333472	12/22/95	Japan			(Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DJ	
EXAMINER: <i>Stan Rask</i>	DATE CONSIDERED: 7-30-01

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FORM PTO-1449

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP DK	4,730,198	3/8/88	Brown et al.	350	96.20	
SSP DL	4,790,618	12/13/88	Abe	350	96.15	
SSP DM	4,817,849	4/4/89	Yamamoto et al.	228	103	
SSP DN	4,845,052	7/4/89	Abend	437	209	
SSP DO	4,909,590	3/20/90	Kamiko et al.	350	96.22	
SSP DP	5,093,879	3/3/92	Bregman et al.	385	93	
SSP DQ	5,170,455	12/8/92	Gooseen et al.	385	89	
SSP DR	5,215,489	6/1/93	Nakamura	445	4	
SSP DS	5,322,463	6/21/94	Young	445	4	
SSP DT	5,371,822	12/6/94	Horwitz et al.	385	89	
SSP DU	5,625,733	4/29/97	Frigo et al.	385	88	
SSP DV	5,659,641	8/19/97	DeMeritt et al.	385	14	
SSP DW	5,737,467	4/7/98	Kato et al.	385	92	
SSP DX	5,916,458	6/29/99	Komoriya et al.	219	121.63	
SSP DY	6,010,251	1/4/00	Koyanagi et al.	385	93	
SSP DZ						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SSP EA	196 44 758 A1	4/30/98	Germany			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

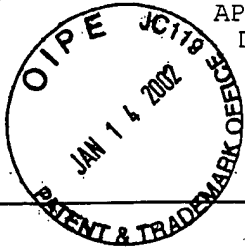
SSP EB	"Micro-Mechanical Alignment Structures (patent pending)", from Web Site of Axsun Technologies, 2 pages, downloaded 2/15/01.
SSP EC	"An Innovative Flexible and Accurate Packaging Technique Suited to Fabricate Low Cost Micro Optoelectronic Modules", by M. Scussat et al., Electronic Components and Technology Conference, 2000, pgs: 26-32.

EXAMINER:

DATE CONSIDERED:

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SSP	AD	4,750,799	6/14/88	Kawachi et al.	350	96.11
SSP	AE	4,752,816	6/21/88	Sussman et al.	357	30
SSP	AF	4,798,439	1/17/89	Preston	350	96.20
SSP	AG	4,892,377	1/9/90	Randle	350	96.2
SSP	AH	4,954,458	9/4/90	Reid	437	51
SSP	AI	4,989,934	2/5/91	Zavracky et al.	350	96.11
SSP	AJ	5,113,404	5/12/92	Gaebe et al.	372	36
SSP	AK	5,123,074	6/16/92	Yokota et al.	385	95
SSP	AL	5,177,807	1/5/93	Avelange et al.	385	91
SSP	AM	5,210,811	5/11/93	Avelange et al.	385	91
SSP	AN	5,247,597	9/21/93	Blacha et al.	385	88
SSP	AO	5,249,733	10/5/93	Brady et al.	228	180.22

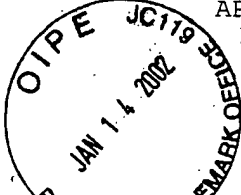
FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	
EXAMINER:	DATE CONSIDERED: 7-30-02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<div style="text-align: center;"> <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p>  </div>	Atty. Docket No.: A48.12-0008	Appl. No.: 09/789,317
	First Named Inventor:	
	Steven K. Case et al.	
	Filing Date February 20, 2001	Group Art: 2877

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	AR 5,283,446	2/1/94	Tanisawa	357	433	
SSP	AS 5,478,778	12/26/95	Tanisawa	437	183	
SSP	AT 5,499,312	3/12/96	Hahn et al.	385	91	
SSP	AU 5,535,296	7/9/96	Uchida	385	89	
SSP	AV 5,550,088	8/27/96	Dautartas et al.	437	225	
SSP	AW 5,555,333	9/10/96	Kato	385	89	
SSP	AX 5,559,914	9/24/96	Asakura	385	49	
SSP	AY 5,568,892	10/29/96	Basavanhally	228	180.22	
SSP	AZ 5,574,561	11/12/96	Boudreau et al.	356	399	
SSP	BA 5,603,870	2/18/97	Roll et al.	264	1.25	
SSP	BB 5,647,044	7/8/97	Basavanhally et al.	385	92	
SSP	BC 5,659,641	8/19/97	DeMeritt et al.	385	14	
SSP	BD 5,687,267	11/11/97	Uchida	385	89	
SSP	BE 5,700,987	12/23/97	Basavanhally	219	56.1	
SSP	BF 5,721,797	2/24/98	Basavanhally et al.	385	49	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BH	
EXAMINER: <i>Stem Park</i>	DATE CONSIDERED: <i>7-30-02</i>

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>49</p> <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p>JAN 14 2002 PATENT & TRADEMARK OFFICE</p>	Atty. Docket No.: A48.12-0008	Appl. No.: 09/789,317
	First Named Inventor:	
	Steven K. Case et al.	
	Filing Date February 20, 2001	Group Art: 2877

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	BI	5,748,822	5/5/98	Miura et al.	385	90
SSP	BJ	5,748,827	5/5/98	Holl et al.	385	134
SSP	BK	5,778,120	7/7/98	Asakura et al.	385	49
SSP	BL	5,833,202	11/10/98	Wolfgang	248	466
SSP	BM	5,854,867	12/29/98	Lee et al.	385	49
SSP	BN	5,859,943	1/12/99	Asakura et al.	385	49
SSP	BO	5,883,988	3/16/99	Yamamoto et al.	385	14
SSP	BP	5,892,179	4/6/99	Rinne et al.	174	261
SSP	BQ	5,985,086	11/16/99	Peall	156	292
SSP	BR	5,898,806	4/27/99	Nishimoto	385	49
SSP	BS	5,907,649	5/25/99	Acklin et al.	385	49
SSP	BT	5,966,486	10/12/99	Boudreau et al.	385	90
SSP	BU	5,970,200	10/19/99	Takikawa et al.	385	137
SSP	BV	5,985,086	11/16/99	Peall	156	292
SSP	BW	6,027,253	2/22/00	Ota et al.	385	83

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BY	
EXAMINER: <i>Steven Raki</i>	DATE CONSIDERED: <i>7-30-02</i>

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	BZ 6,027,254	2/22/00	Yamada et al.	385	88	
SSP	CA 6,058,234	5/2/00	Tachigori	385	49	
SSP	CB 6,106,161	8/22/00	Basavanhally et al.	385	88	
SSP	CC 6,112,001	8/29/00	Kishida et al.	385	49	
SSP	CD 6,115,515	9/5/00	Itoh et al.	385	14	
SSP	CE 6,118,917	9/12/00	Lee et al.	385	49	
SSP	CF 6,130,448	10/10/00	Bauer et al.	257	222	
SSP	CG 6,132,106	10/17/00	Yokoyama	385	74	
SSP	CH 6,151,173	11/21/00	Massit et al.	359	811	
SSP	CI 6,157,050	12/5/00	Fukuoka	257	82	
SSP	CJ 6,160,936	12/12/00	You et al.	385	49	
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FOREIGN PATENT DOCUMENTS

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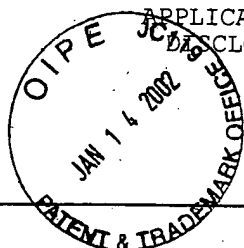
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CQ	
EXAMINER:	DATE CONSIDERED: 7-30-02

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LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT



Atty. Docket No.:
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Steven K. Case et al.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>SSP</i>	CT	0 977 061 A2	2/2/00	EPO			X
<i>SSP</i>	CU	2 779 536	12/10/99	France			X
<i>SSP</i>	CV	54-12286	1/29/79	Japan			X
<i>SSP</i>	CW	63-193113	8/10/88	Japan			(Abstract)
<i>SSP</i>	CX	61-277908	12/8/96	Japan			(Abstract)
<i>SSP</i>	CY	62-276890	12/1/87	Japan			(Abstract)
<i>SSP</i>	CZ	63-12187	1/19/88	Japan			(Abstract)
<i>SSP</i>	DA	63-65411	3/24/88	Japan			(Abstract)
<i>SSP</i>	DB	63-193113	8/10/88	Japan			(Abstract)
<i>SSP</i>	DC	63-228113	9/22/88	Japan			(Abstract)
<i>SSP</i>	DD	1-302214	12/6/89	Japan			(Abstract)
<i>SSP</i>	DE	6-34852	2/10/94	Japan			(Abstract)
<i>SSP</i>	DF	6-174943	6/24/94	Japan			(Abstract)
<i>SSP</i>	DG	6-201921	7/22/94	Japan			(Abstract)
<i>SSP</i>	DH	6-331840	12/2/94	Japan			(Abstract)
<i>SSP</i>	DI	7-333472	12/22/95	Japan			(Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DJ	
EXAMINER: <i>Sten</i>	DATE CONSIDERED: 7-30-02

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FORM PTO-1449

Atty. Docket No.:
A48.12-0008Appl. No.:
09/789,317

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

First Named Inventor:

Steven K. Case et al.

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Group Art:

February 20, 2001

2877

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	DK 4,730,198	3/8/88	Brown et al.	350	96.20	
SSP	DL 4,790,618	12/13/88	Abe	350	96.15	
SSP	DM 4,817,849	4/4/89	Yamamoto et al.	228	103	
SSP	DN 4,845,052	7/4/89	Abend	437	209	
SSP	DO 4,909,590	3/20/90	Kamiko et al.	350	96.22	
SSP	DP 5,093,879	3/3/92	Bregman et al.	385	93	
SSP	DQ 5,170,455	12/8/92	Gooseen et al.	385	89	
SSP	DR 5,215,489	6/1/93	Nakamura	445	4	
SSP	DS 5,322,463	6/21/94	Young	445	4	
SSP	DT 5,371,822	12/6/94	Horwitz et al.	385	89	
SSP	DU 5,625,733	4/29/97	Frigo et al.	385	88	
SSP	DV 5,659,641	8/19/97	DeMeritt et al.	385	14	
SSP	DW 5,737,467	4/7/98	Kato et al.	385	92	
SSP	DX 5,916,458	6/29/99	Komoriya et al.	219	121.63	
SSP	DY 6,010,251	1/4/00	Koyanagi et al.	385	93	
SSP	DZ					

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SSP	EA 196 44 758 A1	4/30/98	Germany			X

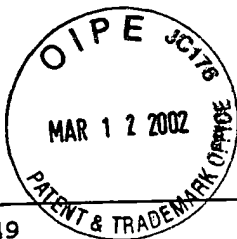
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SSP	EB	"Micro-Mechanical Alignment Structures (patent pending)", from Web Site of Axsun Technologies, 2 pages, downloaded 2/15/01.
SSP	EC	"An Innovative Flexible and Accurate Packaging Technique Suited to Fabricate Low Cost Micro Optoelectronic Modules", by M. Scussat et al., Electronic Components and Technology Conference, 2000, pgs. 26-32.

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Sheet 1 of 1

FORM PTO-1449	Atty. Docket No.: A48.12-0008	Appl. No.: 09/789,317
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:	
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SSP	CA 5,644,668	7/1/97	Chambers et al.	385	90	
SSP	CB 5,671,315	9/23/97	Tabuchi et al.	385	137	
SSP	CC 5,700,987	12/23/97	Basavanhally	219	56.1	
SSP	CD 6,074,103	6/13/00	Hargreaves et al.	385	90	
SSP	CE 6,106,161	8/22/00	Basavanhally et al.	385	88	
SSP	CF 6,222,579	4/24/01	Sousa	347	241	
SSP	CG 6,327,407	12/4/01	Mitsuda et al.	385	49	
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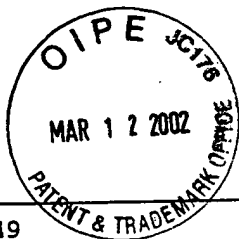
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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CP	EXAMINER: <i>Steven Parks</i>	DATE CONSIDERED: <i>7-30-02</i>
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Sheet 1 of 1

FORM PTO-1449	Atty. Docket No.: A48.12-0008	Appl. No.: 09/789,317
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:	
	Steven K. Case et al.	
	Filing Date	Group Art:
	February 20, 2001	2877

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SSP	CA 5,644,668	7/1/97	Chambers et al.	385	90	
SSP	CB 5,671,315	9/23/97	Tabuchi et al.	385	137	
SSP	CC 5,700,987	12/23/97	Basavanhally	219	56.1	
SSP	CD 6,074,103	6/13/00	Hargreaves et al.	385	90	
SSP	CE 6,106,161	8/22/00	Basavanhally et al.	385	88	
SSP	CF 6,222,579	4/24/01	Sousa	347	241	
SSP	CG 6,327,407	12/4/01	Mitsuda et al.	385	49	
SSP	CH 2001/0010743	8/2/01	Cayrefoureq et al.	385	88	
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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EXAMINER: <i>Steven Parks</i>	DATE CONSIDERED: 7-30-02

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Notice of References Cited

Application/Control No.

09/789,317

Applicant(s)/Patent Under
Reexamination
CASE ET AL.

Examiner

Steven S. Paik

Art Unit

2876

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,383,118 ✓	01-1995	Nguyen, Hung N.	356/388
	B	US-4,854,667 ✓	08-1989	Ebata et al.	385/134
	C	US-5,677,973 ✓	10-1997	Yuhara et al.	385/90
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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